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ATTORNEY DOCKET NO.

FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 35294.3.5 G TREADWAY 08/20/99 09/378,318 **EXAMINER** Γ IM52/0627 MULCAHY F PAPER NUMBER ART UNIT JAMES R HALLER FREDRIKSON & BYRON PA 2 1100 INTERNATIONAL CENTRE 1713 900 2ND AVE S DATE MAILED: MINNEAPOLIS MN 55402-3397 06/27/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

~ V		Application No),	Applicant(s)		
		09/378,318		TREADWAY, G	TREADWAY, GERALD D.	
	Office Action Summary	Examiner		Art Unit		
•		Peter D. Mulc	ahy	1713		
The MAILING DATE of this communication appears on the cover she t with the correspondence address						
A SHC THE M - Extens after S - If the p - If NO - Failum - Any re earner Status	PREPLY ORTENED STATUTORY PERIOD FOR REPLY ALLING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1.1 (S) MONTHS from the mailing date of this communication. Specified above is less than thirty (30) days, a reply period for reply specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute the provided by the Office later than three months after the mailing displayed the provided by the Office later than three months after the mailing displayed to the provided by the Office later than three months after the mailing displayed to the provided by the Office later than three months after the mailing displayed to the provided by the Office later than three months after the mailing displayed to the provided by the Office later than three months after the mailing displayed to the provided by the Office later than three months after the mailing displayed to the provided by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than the mailing displayed by the Office later than three months	Y IS SET TO E. 136 (a). In no event, h 15 within the statutory 16 will apply and will exp 17 e, cause the application 18 g date of this communication 18 August 1999 19 chis action is not	XPIRE 3 MONT owever, may a reply be minimum of thirty (30) ire SIX (6) MONTHS from to become ABANDC nication, even if timely the content of t	H(S) FROM e timely filed days will be considered ti om the mailing date of th NED (35 U.S.C. § 133). filed, may reduce any	mely. is communication.	
2a)□ 3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
4)⊠ 5)□ 6)⊠ 7)□ 8)□	Claim(s) is/are objected to. Claims are subject to restriction and	awn from consi				
9)	The oath or declaration is objected to by the	ed to by the Exa is: a)□ ap	miner. oproved b)⊡ di	sapproved.		
Priority under 35 U.S.C. § 119 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
	nent(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94 nformation Disclosure Statement(s) (PTO-1449) Paper N	8) lo(s) <u>2</u> .	18)	Summary (PTO-413) F nformal Patent Applic	Paper No(s) ation (PTO-152)	

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Applicants should note that the claims as presented were numbered incorrectly. There are two claim No. 11's and as such, the second claim 11 has been renumbered as 12. Claims 12-17 as originally presented have now been renumbered to be claims 13-18.

Claims 1-18 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

Applicants' claims are indefinite in that the recitation of "the hydrolysis product of an epoxy functional alkoxysilane" and "unhydrolyzed epoxy functional alkoxysilane" are seen to be overlapping in scope. It should be understood that the notion of hydrolysis is not one of being either hydrolyzed or unhydrolyzed but rather a degree dependent limitation. This is to say that partially hydrolyzed epoxy functional akoxysilanes are routinely incorporated in such compositions and commercially available. It is seen that a partially hydrolyzed resin would both read on the unhydrolyzed compound as well as the hydrolyzed compound. As such, the claims remain indefinite.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that

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the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Funaki et al., U.S. Patent 4,642,266.

The Funaki patent teaches coating compositions which incorporate partial hydrolyzates of eppoxy containing organic silane compounds. See component (A). This is seen to read on applicants' instantly claimed hydrolyzed compound as well as unhydrolyzed compound.

The curing agents are shown at column 8 lines 12+.

The surface active agents are shown at column 9 lines 15+.

The instantly claimed ethylenically unsaturated monomers are shown extensively at column 12 lines 63+. The Examiner maintains that it would be prima facie obvious to formulate applicants' instantly claimed composition from this disclosure since each of applicants' ingredients is shown and suggested to be utilized in combination.

Claims 1-18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Morrison, U.S. Patent 5,314,980 or Tarshiani et al., U.S. Patent 5,385,955 taken in view of Perkins et al., U.S. Patent 5,221,560.

The Morrison and Tarshiani et al. patents are cited as showing epoxysilane coating compositions which have incorporated

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therein applicants' instantly claimed surfactants and curing agents. The notion of combining the hydrolyzed compound with the unhydrolyzed compound is seen to be rendered prima facie obvious by the disclosure of the partial hydrolysis products as well as the "and/or" language utilized in describing the incorporation of these ingredients. See specifically Tarshiani et al. at columns 3 and 4 as well as Morrison at column 3 lines 60+. These patents are seen to show each of the claimed ingredients but for the ethylenically unsaturated monomer as instantly claimed. Perkins et al. patent also shows epoxysilane coating compositions which have incorporated therein the instantly claimed curing agents as well. This patent is specific as to the desirability of the incorporation of monofunctional monomers. See the Abstract as identified as (e). The Examiner maintains that it would be prima facie obvious to incorporate the monofunctional monomers into the compositions of Morrison and Tarshiani et al. given the art recognized function of these compounds and the attendant function associated therewith.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter D. Mulcahy, whose telephone number is (703) 308-2449. The examiner can normally be reached on Tuesday through Friday from 7:30 A.M. to 6:00 P.M.

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The fax telephone number for this group is (703) 305-3599.

Any inquiry of general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-2351.

P. Mulcahy:cdc June 26, 2001 PETER D. MULCAHY PRIMARY EXAMINER GROUP 1500